Electronic Version
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HOLDER FOR SUPPORTING WORKPIECE IN A FIXED LOCATION PIVOTAL ABOUT DUAL AXES

Abstract

A workpiece holding system (10) configured for holding a workpiece (R) for crafting thereof by a craftsman (C) is disclosed. The system (10) broadly includes a mounting assembly (12) removably coupled to a support surface (B), an articulating frame assembly (14) coupled to the mounting assembly (12), a workpiece-supporting tool assembly (16) removably coupled to the frame assembly (14), and a mirrored ambidextrous handrest assembly (18) removably coupled to the mounting assembly (12). The frame assembly (14) includes an L-shaped mounting arm (32) pivotal about an axis (X) of rotation, and an L-shaped tool assembly arm (34) pivotal about an axis (Y) of rotation. The (X) and (Y) axes retain a coplanar and perpendicular relationship throughout the full range of motion of the frame assembly (14) to thereby intersect to define a work zone (W) at the region of intersection thereof. A fixture (36) spaced from the work zone (W) adjustably receives the tool assembly (16) so that the workpiece (R) held therein can be

positioned substantially in the work zone (W) so that when the tool assembly (16) is maneuvered, thereby articulating the frame assembly (14), the workpiece (R) substantially remains in the work zone (W). The tool assembly (16) broadly includes a tool assembly clamp (76), a plurality of tools (78, 140, 152, 154, 172) each being configured to hold the workpiece (R), and a connection assembly (80) configured to quickly and removably couple the tools (78, 140, 152, 154, 172) into the tool assembly clamp (76). The connection assembly (80) enables an easy tool changeover and broadly includes a receiver (110) presenting a pin-receiving slot (112), a latch pin (114) configured and dimensioned for slidable receipt in the slot (112), and a captive nut (116) for adjustably drawing the tool-laden receiver (110) further into the tool assembly clamp (76).